



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Louis B. Rosenberg et al.

SERIAL NO.: 10/780,852

FILING DATE: February 19, 2004 CONFIRMATION NO.: 2467

TITLE: Computer Interface Apparatus Including Linkage Having Flex

EXAMINER: Brier, Jeffery A.

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ART UNIT: 2628

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**CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date: 7/23/07

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Monica Pizarro

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**INFORMATION DISCLOSURE STATEMENT**

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant hereby submits this Information Disclosure Statement (IDS) including a Form PTO-1449 containing a list of references which may be material to the examination of the above-referenced application. This submission is not to be construed as a representation that a prior art search has been conducted, that additional information material to the examination of this application does not exist, or that any one or more of the listed references constitutes prior art.

The Examiner is urged to carefully consider this Information Disclosure Statement and all the listed references, and to indicate same by initialing the appropriate portion(s) of the Form PTO-1449 and forwarding an initialed copy to applicant.

Pursuant to 37 C.F.R. § 1.98(2) legible copies of prior art references other than U.S. Patents and U.S. Patent Application Publications are attached.

**I**

This statement is filed pursuant to (**CHECK ONE BOX**):



**37 C.F.R. § 1.97(b).**

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application;
- (3) before the mailing date of a first office action on the merits; or
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.



**37 C.F.R. § 1.97(c).**

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97(b), but **before** the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; or
- (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); **or**
- (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).



**37 C.F.R. § 1.97(d).**

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); **and**
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. **To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.**

**II**

**Fees Due (CHECK ONE BOX):**

No fee is due.

The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).

**III**

**Certification (CHECK ONE BOX):**

No certification is necessary.

Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies:  
That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:  
No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this information disclosure statement.

**IV**

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

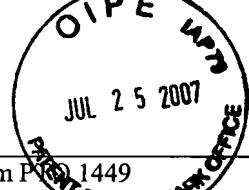
Respectfully submitted,  
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Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. IMMR-0013D (034701-007)	Serial No. 10/780,852
<b>Information Disclosure Statement by Applicant</b>		Applicant: Louis B. Rosenberg et al.	
(Use several sheets if necessary)		Filed: 02/19/2004	Group: 2628

**U.S. Patent Documents**

Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	4,689,449	08/25/1987	Rosen			
	4,758,692	07/19/1988	Roeser et al.			
	4,857,881	08/15/1989	Hayes			
	4,994,669	02/19/1991	Stern			
	5,223,776	06/29/1993	Radke et al.			
	5,228,356	07/20/1993	Chuang			
	5,436,640	07/25/1995	Reeves			
	5,589,828	12/31/1996	Armstrong			
	5,589,854	12/31/1996	Tsai			
	5,629,594	05/13/1997	Jacobus et al.			
	5,724,068	03/03/1998	Sanchez et al.			
	5,731,804	3/24/1998	Rosenberg			
	5,739,811	04/14/1998	Rosenberg et al.			
	5,742,278	04/21/1998	Chen et al.			
	5,754,023	05/19/1998	Roston et al.			
	5,805,140	09/08/1998	Rosenberg et al.			
	6,201,533	3/13/2001	Rosenberg et al.			
	6,697,048	2/24/2004	Rosenberg et al.			

**Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)**

	Millman, Paul A. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," Depart. Of Mechanical Engineering, 1991, pp. 1488-1493.
	Ouhyoung, Ming et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995, pp. 787-194.
	Russo, Massimo Andrea, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," Dept. of Mechanical Engineering, MIT May 1990, 131 pages.
	Schmult, Brian et al., "Application Areas For A Force-Feedback Joystick," DSC-Vol. 49, Advanced in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 47-54.
	Tadros, Alfred Heikal, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators," Dept. of Mechanical Engineering, MIT February 1990, pp. 2-88.
	Yamakita, M. et al., "Tele Virtual Reality of Dynamic Mechanical Model," Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, July 7-10, 1992, pp. 1103-1110.

Examiner	Date Considered
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	